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- (71) Applicant (for all designated States except US): **DANISCO SWEETENERS OY** [FI/FI]; Keilaranta 9, FI-02150 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **HEIKKILÄ, Heikki** [FI/FI]; Ristiniementie 32 G 33, FI-02320 Espoo (FI). **KOIVIKKO, Hannu** [FI/FI]; Kolsarintie 4, FI-02460 Kantvik (FI). **NURMI, Juha** [FI/FI]; Nahkurinpiha 2, FI-02400 Kirkkonummi (FI). **MATTILA, Jari** [FI/FI]; Gesterbynpolku 6 A 3, FI-02410 Kirkkonummi (FI). **SAARI, Pia** [FI/FI]; Merivalkama 8 D 49, FI-02320 Espoo (FI). **NURMI, Nina** [FI/FI]; Tammitie 20 A 17, FI-00330 Helsinki (FI). **SARMALA, Päivi** [FI/FI]; Mikkolantie 96, FI-05200 Rajamäki (FI). **LINDROOS, Mirja** [FI/FI]; Pohjoispiha 8, FI-02400 Kirkkonummi (FI).
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(54) Title: SEPARATION PROCESS

(57) Abstract: The invention relates to a process of recovering arabinose and optionally other monosaccharides from vegetable fiber rich in heteropolymetric arabinose, such as gum arabic. Said other monosaccharides are typically selected from galactose and rhamnose. The process of the invention comprises controlled hydrolysis of the arabinose-rich vegetable fiber and fractionation of the hydrolysis product to obtain a fraction enriched in arabinose and optionally other product fractions followed by crystallization of arabinose. The invention also relates to a novel method of crystallizing arabinose from biomass-derived material. Furthermore, the invention relates to novel crystalline L-arabinose.